

**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Term	Documents
AUTOFILL\$3	0
AUTOFILL.EPAB,USPT,PGPB.	39
AUTOFILLED.EPAB,USPT,PGPB.	1
AUTOFILLER.EPAB,USPT,PGPB.	1
AUTOFILLING.EPAB,USPT,PGPB.	4
AUTOFILLS.EPAB,USPT,PGPB.	1
SPEEDFILL\$3	0
SPEEDFILL\$3	0
SPREADSHEET.EPAB,USPT,PGPB.	3688
SPREADSHEETS.EPAB,USPT,PGPB.	1429
((SPEEDFILL\$3 OR AUTOFILL\$3) AND SPREADSHEET).USPT,PGPB,EPAB.	1

☐ US Patents Full-Text Database  
☐ US Pre-Grant Publication Full-Text Database  
☐ JPO Abstracts Database  
☐ EPO Abstracts Database  
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☐ IBM Technical Disclosure Bulletins

Database:

Refine Search:

(autofill\$3 or speedfill\$3) and  
spreadsheet

Clear

**Search History**

Today's Date: 10/30/2001

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT,PGPB,EPAB	(autofill\$3 or speedfill\$3) and spreadsheet	1	<u>L41</u>
USPT,PGPB,EPAB	(autofill\$3 or speedfill\$3) same spreadsheet	0	<u>L40</u>

USPT,PGPB,EPAB	(l19 or l20 or l21) and l38	17	<u>L39</u>
USPT,PGPB,EPAB	(suggest\$3 or guess\$3) same l37	1065	<u>L38</u>
USPT,PGPB,EPAB	(fill\$3 or complet\$3) near6 l3	83680	<u>L37</u>
USPT,PGPB,EPAB	(l4 or l13) near6 (suggest\$3 or guess\$3)	0	<u>L36</u>
USPT	4763356.pn.	1	<u>L35</u>
USPT	5367619.pn.	1	<u>L34</u>
USPT	5450538.pn.	1	<u>L33</u>
USPT	5557723.pn.	1	<u>L32</u>
USPT	5687385.pn.	1	<u>L31</u>
USPT	5704029.pn.	1	<u>L30</u>
USPT	5615367.pn.	1	<u>L29</u>
USPT	5920866.pn.	1	<u>L28</u>
USPT	5920866.pn.	1	<u>L27</u>
USPT	4962475.pn.	1	<u>L26</u>
USPT	5251291.pn.	1	<u>L25</u>
USPT	5640577.pn.	1	<u>L24</u>
USPT,PGPB,EPAB	(l19 or l20 or l21) and l17	20	<u>L23</u>
USPT,PGPB,EPAB	(l19-l21) and l17	0	<u>L22</u>
USPT,PGPB,EPAB	((707/534  707/538  707/539 )!.CCLS. )	177	<u>L21</u>
USPT,PGPB,EPAB	((707/1  707/2  707/3  707/4  707/5  707/6  707/7  707/8  707/9  707/10  707/100  707/101  707/102  707/103R  707/103Y  707/103X  707/103Z  707/104.1  707/200  707/201  707/202  707/203  707/204  707/205  707/206 )!.CCLS. )	8021	<u>L20</u>
USPT,PGPB,EPAB	((707/503  707/504  707/505  707/506  707/507  707/508  707/509  707/510 )!.CCLS. )	510	<u>L19</u>
USPT,PGPB,EPAB	(707/1-542.ccls. or 345/700-866.ccls.) and l17	0	<u>L18</u>
USPT,PGPB,EPAB	(l15 or l16) and l14	198	<u>L17</u>
USPT,PGPB,EPAB	l3.ti.	91639	<u>L16</u>
USPT,PGPB,EPAB	l3.ab.	392243	<u>L15</u>
USPT,PGPB,EPAB	l13 not l4	429	<u>L14</u>
USPT,PGPB,EPAB	(l1 near7 l3)	471	<u>L13</u>
USPT	5956031.pn.	1	<u>L12</u>
USPT	5950201.pn.	1	<u>L11</u>
USPT	5682538.pn.	1	<u>L10</u>
USPT	5673401.pn.	1	<u>L9</u>
USPT	5666502.pn.	1	<u>L8</u>
USPT	5603034.pn.	1	<u>L7</u>
USPT	5600778.pn.	1	<u>L6</u>

USPT	5544285.pn.	1	<u>L5</u>
USPT,PGPB,EPAB	12 near7 13	42	<u>L4</u>
USPT,PGPB,EPAB	cell or field or table or spreadsheet	2139708	<u>L3</u>
USPT,PGPB,EPAB	autofill\$3 or speedfill\$3 or (auto or speed) adj (fill\$3 or complet\$3)	2166	<u>L2</u>
USPT,PGPB,EPAB	autofill\$3 or speedfill\$3 or (auto or automatic\$4 or speed) near2 (fill\$3 or complet\$3)	22665	<u>L1</u>

**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 1 of 1 returned.**☐ 1. Document ID: US 5495565 A

L41: Entry 1 of 1

File: USPT

Feb 27, 1996

US-PAT-NO: 5495565

DOCUMENT-IDENTIFIER: US 5495565 A

TITLE: Integrated form document editor with form descriptor table, background bitmap, graphics editor and text editor, composite image generator and intelligent autofill

DATE-ISSUED: February 27, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Millard; Keith	Merrimack	NH		
Daley; Geoffrey L.	Nashua	NH		

US-CL-CURRENT: 707/506; 707/530

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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[Generate Collection](#)

Term	Documents
AUTOFILL\$3	0
AUTOFILL.EPAB,USPT,PGPB.	39
AUTOFILLED.EPAB,USPT,PGPB.	1
AUTOFILLER.EPAB,USPT,PGPB.	1
AUTOFILLING.EPAB,USPT,PGPB.	4
AUTOFILLS.EPAB,USPT,PGPB.	1
SPEEDFILL\$3	0
SPEEDFILL\$3	0
SPREADSHEET.EPAB,USPT,PGPB.	3688
SPREADSHEETS.EPAB,USPT,PGPB.	1429
((SPEEDFILL\$3 OR AUTOFILL\$3) AND SPREADSHEET).USPT,PGPB,EPAB.	1

Documents, starting with Document:

**Display Format:**

# WEST

Generate Collection

Search Results - Record(s) 1 through 15 of 17 returned.

☐ 1. Document ID: US 6301701 B1

L39: Entry 1 of 17 File: USPT Oct 9, 2001  
 US-PAT-NO: 6301701  
 DOCUMENT-IDENTIFIER: US 6301701 B1

TITLE: Method for computer-assisted testing of software application components

DATE-ISSUED: October 9, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Walker; Jeffrey L.	Ross	CA		
Diab; Samer	Fremont	CA		
Slovik; Adam	San Francisco	CA		

US-CL-CURRENT: 717/4; 702/123, 707/3, 717/8

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6076141 A

L39: Entry 2 of 17 File: USPT Jun 13, 2000  
 US-PAT-NO: 6076141  
 DOCUMENT-IDENTIFIER: US 6076141 A

TITLE: Look-up switch accelerator and method of operating same

DATE-ISSUED: June 13, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tremblay; Marc	Palo Alto	CA		
O'Connor; James Michael	Mountain View	CA		

US-CL-CURRENT: 711/108; 365/49, 707/6, 711/128, 711/221

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 3. Document ID: US 6026410 A

L39: Entry 3 of 17

File: USPT

Feb 15, 2000

US-PAT-NO: 6026410

DOCUMENT-IDENTIFIER: US 6026410 A

TITLE: Information organization and collaboration tool for  
processing notes and action requests in computer systems

DATE-ISSUED: February 15, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allen; David	Ojai	CA		
Smiga; Brian	San Francisco	CA		
Rabbani; Danny	San Francisco	CA		
Buchheim; Dennis	Palo Alto	CA		
Mann; Tony	Issaquah	WA		
Hagan; Thomas	Boston	MA		
Joaquin; James	San Francisco	CA		

US-CL-CURRENT: 707/104.1; 704/270, 707/200

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWC	Draw Desc	Image
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☐ 4. Document ID: US 5893101 A

L39: Entry 4 of 17

File: USPT

Apr 6, 1999

US-PAT-NO: 5893101

DOCUMENT-IDENTIFIER: US 5893101 A

TITLE: Protection of an electronically stored image in a first color space by the alteration of digital component in a second color space

DATE-ISSUED: April 6, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Balogh; Aristotle	Bowie	MD		
Blejer; Hatte	Alexandria	VA		
Briggs; Robert	Annandale	VA		
Chen; Eugene	Arlington	VA		
Flank; Sharon	Washington	DC		
Iannacone; Carmen	Fairfax	VA		
Maloney; John	Upper Marlboro	MD		
Martin; Patrick	Arlington	VA		
Rothey; James	Fairfax	VA		
Schmid; Gary	Arlington	VA		
Evans; David	Falls Church	VA		
Dozier; Linda T.	Goleta	CA		
Lorton; Michael	San Francisco	CA		

US-CL-CURRENT: 707/100; 358/1.1, 380/54, 399/1, 399/366,  
707/104.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☒ 5. Document ID: US 5890174 A

L39: Entry 5 of 17

File: USPT

Mar 30, 1999

US-PAT-NO: 5890174

DOCUMENT-IDENTIFIER: US 5890174 A

TITLE: Method and system for constructing a formula in a spreadsheet

DATE-ISSUED: March 30, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Khanna; Karan	Clyde Hill	WA		
Martinez; Edward A.	Redmond	WA		

US-CL-CURRENT: 707/504



Full	Title	Citation	Front	Review	Classification	Date	Reference
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KVMC	Draw Desc	Image
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☐ 6. Document ID: US 5870737 A

L39: Entry 6 of 17

File: USPT

Feb 9, 1999

US-PAT-NO: 5870737

DOCUMENT-IDENTIFIER: US 5870737 A

TITLE: Dynamic prioritized replacement of language

DATE-ISSUED: February 9, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dockter; Michael Jon	Hollister	CA		
Farber; Joel Frank	San Jose	CA		
Pauser; Michael Leon	Morgan Hill	CA		
Richardt; Randal James	San Jose	CA		
Ruggles; R. Brant	Morgan Hill	CA		

US-CL-CURRENT: 707/4; 707/5

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KVMC	Draw Desc	Image
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☐ 7. Document ID: US 5864848 A

L39: Entry 7 of 17

File: USPT

Jan 26, 1999

US-PAT-NO: 5864848

DOCUMENT-IDENTIFIER: US 5864848 A

TITLE: Goal-driven information interpretation and extraction system

DATE-ISSUED: January 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Horvitz; Eric	Kirkland	WA		
Finkelstein; Erich S.	Bellevue	WA		

US-CL-CURRENT: 707/6; 707/102, 707/514, 707/515, 707/516

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KVMC	Draw Desc	Image
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☐ 8. Document ID: US 5864340 A

L39: Entry 8 of 17

File: USPT

Jan 26, 1999

US-PAT-NO: 5864340

DOCUMENT-IDENTIFIER: US 5864340 A

TITLE: Mobile client computer programmed to predict input

DATE-ISSUED: January 26, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bertram; Randal Lee	Raleigh	NC		
Champion; David Frederick	Durham	NC		
Brittenham; Peter James	Apex	NC		

US-CL-CURRENT: 345/780; 345/841, 707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5848412 A

L39: Entry 9 of 17

File: USPT

Dec 8, 1998

US-PAT-NO: 5848412

DOCUMENT-IDENTIFIER: US 5848412 A

TITLE: User controlled browser identification disclosing mechanism

DATE-ISSUED: December 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rowland; Bruce R.	St. Charles	IL		
Friedman; Lee G.	Alpharetta	GA		

US-CL-CURRENT: 707/9; 707/10

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 5845300 A

L39: Entry 10 of 17

File: USPT

Dec 1, 1998

US-PAT-NO: 5845300

DOCUMENT-IDENTIFIER: US 5845300 A

TITLE: Method and apparatus for suggesting completions for a  
partially entered data item based on previously-entered,  
associated data items

DATE-ISSUED: December 1, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Comer; Ross Ward	Bothell	WA		
Stein; Adam Brett	Bellevue	WA		
Williams, Jr.; David Russell	Issaquah	WA		

US-CL-CURRENT: 707/508

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 11. Document ID: US 5805159 A

L39: Entry 11 of 17

File: USPT

Sep 8, 1998

US-PAT-NO: 5805159

DOCUMENT-IDENTIFIER: US 5805159 A

TITLE: Mobile client computer interdependent display data  
fields

DATE-ISSUED: September 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bertram; Randal Lee	Raleigh	NC		
Oldfield; William Thomas	Cary	NC		

US-CL-CURRENT: 345/764; 345/169, 345/173, 345/811, 345/905,  
707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 12. Document ID: US 5805158 A

L39: Entry 12 of 17

File: USPT

Sep 8, 1998

US-PAT-NO: 5805158

DOCUMENT-IDENTIFIER: US 5805158 A

TITLE: Copying predicted input between computer systems

DATE-ISSUED: September 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bertram; Randal Lee	Raleigh	NC		
Brittenham; Peter James	Apex	NC		
Champion; David Frederick	Durham	NC		

US-CL-CURRENT: 345/764; 345/169, 345/173, 345/811, 345/905,  
707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 13. Document ID: US 5682538 A

L39: Entry 13 of 17

File: USPT

Oct 28, 1997

US-PAT-NO: 5682538

DOCUMENT-IDENTIFIER: US 5682538 A

TITLE: Automatic adaptive computer screen generation

DATE-ISSUED: October 28, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lemire; John P.	Redmond	WA		
Mortensen; Mark A.	Mercer Island	WA		
Jenny; Patrick D.	Redmond	WA		
Barnes; Todd Allan	Snohomish	WA		

US-CL-CURRENT: 707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 14. Document ID: US 5617119 A

L39: Entry 14 of 17

File: USPT

Apr 1, 1997

US-PAT-NO: 5617119

DOCUMENT-IDENTIFIER: US 5617119 A

TITLE: Protection of an electronically stored image in a first color space by the alteration of a digital component in a second color space

DATE-ISSUED: April 1, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Briggs; Robert	Annandale	VA		
Iannacone; Carmen	Fairfax	VA		
Rothey; James	Fairfax	VA		
Evans; David	Falls Church	VA		

US-CL-CURRENT: 707/100; 358/1.1, 380/54, 399/1, 399/366

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 15. Document ID: US 5613131 A

L39: Entry 15 of 17

File: USPT

Mar 18, 1997

US-PAT-NO: 5613131

DOCUMENT-IDENTIFIER: US 5613131 A

TITLE: Auto-formatting of tables in a spreadsheet program

DATE-ISSUED: March 18, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Moss; Ken A.	Redmond	WA		
Kwatinetz; Andrew	Seattle	WA		

US-CL-CURRENT: 707/509

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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[Generate Collection](#)

Term	Documents
(38 AND (21 OR 19 OR 20)).USPT,PGPB,EPAB.	17

[Display](#)

15

Documents, starting with Document:

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**Display Format:**

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Term	Documents
(17 AND (21 OR 19 OR 20)).USPT,PGPB,EPAB.	20

**Database:**

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JPO Abstracts Database	
EPO Abstracts Database	
Derwent World Patents Index	
IBM Technical Disclosure Bulletins	▼

**Refine Search:**

(119 or 120 or 121) and 117

[Clear](#)**Search History****Today's Date: 10/30/2001**

**WEST**☐ Generate Collection

L4: Entry 8 of 42

File: USPT

Mar 27, 2001

US-PAT-NO: 6208339

DOCUMENT-IDENTIFIER: US 6208339 B1

TITLE: User-interactive data entry display system with entry fields having distinctive and changeable autocomplete

DATE-ISSUED: March 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Atlas; Marshall Allan	Austin	TX			
DiAngelo; Michael Franz	Holly Springs	NC			
Ragan, Jr.; Richard	Round Rock	TX			
Walton					

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY	TYPE	CODE
International Business Machines Corporation	Armonk	NY					02

APPL-NO: 9/ 100712

DATE FILED: June 19, 1998

INT-CL: [7] G06F 13/00

US-CL-ISSUED: 345/338; 345/347, 345/352, 707/507

US-CL-CURRENT: 345/780; 345/708, 345/866, 707/507

FIELD-OF-SEARCH: 340/339, 340/340, 707/507, 707/508, 345/338, 345/347, 345/352, 345/353, 345/354, 345/902

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL



	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input checked="" type="checkbox"/>	5544285	August 1996	Glaser et al.	395/149
<input type="checkbox"/>	5600778	February 1997	Swanson et al.	395/333
<input type="checkbox"/>	5603034	February 1997	Swanson	395/701
<input checked="" type="checkbox"/>	5666502	September 1997	Capps	345/352
<input type="checkbox"/>	5673401	September 1997	Volk et al.	395/327
<input checked="" type="checkbox"/>	5682538	October 1997	Lemire et al.	707/507
<input type="checkbox"/>	5950201	September 1999	Van Huben et al.	707/10
<input type="checkbox"/>	5956031	September 1999	Berteig et al.	345/339

## OTHER PUBLICATIONS

IBM Technical Disclosure Bulletin, "Entry Field Color Identification", vol. 39, No. 04, Apr. 1996, p. 141.

ART-UNIT: 273

PRIMARY-EXAMINER: Huynh; Ba

ATTY-AGENT-FIRM: Kraft; Jerry B. Labaw; Jeffrey S.

## ABSTRACT:

A computer controlled interactive display system for for providing a user interface for data entry with user changeable autocomplete functions for the data entry fields. For each of the fields, there is provided autocomplete means, i.e. means for automatically providing a proposed completion of a user entry into at least one of said fields, and user-interactive means for selectively disabling or otherwise modifying said means for automatically providing a proposed completion. Further means are provided for indicating whether said means for automatically providing a proposed completion of user entries has been disabled for a data entry field.

24 Claims, 9 Drawing figures

**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 15 of 42 returned.**☐ 1. Document ID: US 20010034720 A1

L4: Entry 1 of 42

File: PGPB

Oct 25, 2001

PGPUB-DOCUMENT-NUMBER: 20010034720

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010034720 A1

TITLE: System for facilitating a transaction

PUBLICATION-DATE: October 25, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Armes, David	Phoenix	AZ	US	

US-CL-CURRENT: 705/65; 705/39, 705/66, 705/78

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 2. Document ID: US 20010014033 A1

L4: Entry 2 of 42

File: PGPB

Aug 16, 2001

PGPUB-DOCUMENT-NUMBER: 20010014033

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010014033 A1

TITLE: Nonvolatile semiconductor memory device having verify function

PUBLICATION-DATE: August 16, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Miyamoto, Junichi	Yokohama-shi		JP	
Itoh, Yasuo	Kawasaki-shi		JP	
Iwata, Yoshihisa	Yokohama-shi		JP	

US-CL-CURRENT: 365/154

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw Desc	Image
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☐ 3. Document ID: US 20010005718 A1

L4: Entry 3 of 42

File: PGPB

Jun 28, 2001

PGPUB-DOCUMENT-NUMBER: 20010005718

PGPUB-FILING-TYPE: new-utility

DOCUMENT-IDENTIFIER: US 20010005718 A1

TITLE: Apparatus and process for rapid hybridization

PUBLICATION-DATE: June 28, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wen-Tung, Yang	Taichung		TW	
Kan-Hung, Lee	Taipei		TW	
Chuan-Mei, Tsai	Hsinchu		TW	
Yu-Hau, Shih	ChanHwa		TW	
Yih-Weng, Wang	Tainan		TW	

US-CL-CURRENT: 514/44; 435/287.2, 435/6

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Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWC	Draw Desc	Image
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☐ 4. Document ID: US 20010002173 A1

L4: Entry 4 of 42

File: PGPB

May 31, 2001

PGPUB-DOCUMENT-NUMBER: 20010002173

PGPUB-FILING-TYPE: new-utility

DOCUMENT-IDENTIFIER: US 20010002173 A1

TITLE: Semiconductor storage device and production method thereof

PUBLICATION-DATE: May 31, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Sanada, Kazuhiko	Tokyo		JP	
Saitou, Kenji	Tokyo		JP	
Ishige, Kiyokazu	Tokyo		JP	
Nakamura, Hitoshi	Tokyo		JP	

US-CL-CURRENT: 365/185.29

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 5. Document ID: US 6298049 B1

L4: Entry 5 of 42 File: USPT Oct 2, 2001

US-PAT-NO: 6298049

DOCUMENT-IDENTIFIER: US 6298049 B1

TITLE: Method and arrangement for upstream timeslot assignment,  
and communication system wherein the method is used

DATE-ISSUED: October 2, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Vanhoof; Harry Franciscus Ludovica	Lille				BEX
Wolters; Robert	Montfort				NLX

US-CL-CURRENT: 370/329; 370/442

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 6. Document ID: US 6240018 B1

L4: Entry 6 of 42 File: USPT May 29, 2001

US-PAT-NO: 6240018

DOCUMENT-IDENTIFIER: US 6240018 B1

TITLE: Nonvolatile semiconductor memory device having verify  
function

DATE-ISSUED: May 29, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Miyamoto; Junichi	Yokohama				JPX
Itoh; Yasuo	Kawasaki				JPX
Iwata; Yoshihisa	Yokohama				JPX

US-CL-CURRENT: 365/185.22; 365/185.01, 365/185.11

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 6224341 B1

L4: Entry 7 of 42

File: USPT

May 1, 2001

US-PAT-NO: 6224341

DOCUMENT-IDENTIFIER: US 6224341 B1

TITLE: Damping systems for vibrating members

DATE-ISSUED: May 1, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fricke; J. Robert	Belmont	MA		

US-CL-CURRENT: 416/248; 188/268, 188/378, 416/500, 464/180,  
74/574

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 6208339 B1

L4: Entry 8 of 42

File: USPT

Mar 27, 2001

US-PAT-NO: 6208339

DOCUMENT-IDENTIFIER: US 6208339 B1

TITLE: User-interactive data entry display system with entry  
fields having distinctive and changeable autocomplete

DATE-ISSUED: March 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Atlas; Marshall Allan	Austin	TX		
DiAngelo; Michael Franz	Holly Springs	NC		
Ragan, Jr.; Richard Walton	Round Rock	TX		

US-CL-CURRENT: 345/780; 345/708, 345/866, 707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 6167469 A

L4: Entry 9 of 42

File: USPT

Dec 26, 2000

US-PAT-NO: 6167469

DOCUMENT-IDENTIFIER: US 6167469 A

TITLE: Digital camera having display device for displaying  
graphical representation of user input and method for  
transporting the selected digital images thereof

DATE-ISSUED: December 26, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Safai; Mohammad A.	Los Altos	CA		
Wang; Eugene	Palo Alto	CA		

US-CL-CURRENT: 710/62; 345/733, 345/839, 348/157, 348/158,  
348/207, 348/211, 348/22, 348/220, 348/222, 348/231,  
348/333.01, 348/64, 348/705, 709/217, 709/234, 710/3, 710/33,  
710/8

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 10. Document ID: US 6162555 A

L4: Entry 10 of 42

File: USPT

Dec 19, 2000

US-PAT-NO: 6162555

DOCUMENT-IDENTIFIER: US 6162555 A

TITLE: Particle feeding apparatus for electrochemical power  
source and method of making same

DATE-ISSUED: December 19, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gutierrez; Bernardo A.	San Diego	CA		
Colborn; Jeffrey A.	Cardiff-by-the-Sea	CA		
Smedley; Stuart I.	Escondido	CA		
Smedley; Kent I.	Escondido	CA		

US-CL-CURRENT: 429/15; 429/27, 429/68, 429/70

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 11. Document ID: US 6101129 A

L4: Entry 11 of 42

File: USPT

Aug 8, 2000

US-PAT-NO: 6101129

DOCUMENT-IDENTIFIER: US 6101129 A

TITLE: Fast chip erase mode for non-volatile memory

DATE-ISSUED: August 8, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chen; Johnny	Cupertino	CA		
Kuo; Tiao-Hua	San Jose	CA		
Leong; Nancy	Sunnyvale	CA		

US-CL-CURRENT: 365/185.29; 365/185.14, 365/185.26

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw. Desc	Image
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☐ 12. Document ID: US 6097638 A

L4: Entry 12 of 42

File: USPT

Aug 1, 2000

US-PAT-NO: 6097638

DOCUMENT-IDENTIFIER: US 6097638 A

TITLE: Semiconductor memory device

DATE-ISSUED: August 1, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Himeno; Toshihiko	Yokohama			JPX
Kanda; Kazushige	Kawasaki			JPX
Nakamura; Hiroshi	Kawasaki			JPX

US-CL-CURRENT: 365/185.25; 365/185.21

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw. Desc	Image
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☐ 13. Document ID: US 6057837 A

L4: Entry 13 of 42

File: USPT

May 2, 2000

US-PAT-NO: 6057837

DOCUMENT-IDENTIFIER: US 6057837 A

TITLE: On-screen indentification and manipulation of sources  
that an object depends upon

DATE-ISSUED: May 2, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hatakeda; Darrin N.	Redmond	WA		
Cherry, IV; Howard W.	Seattle	WA		
O'Neill; John P.	Kirkland	WA		
Johnson; Russell S.	Seattle	WA		
Niemisto; Juha P.	Mercer Island	WA		

US-CL-CURRENT: 345/765; 345/708

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 14. Document ID: US 6031760 A

L4: Entry 14 of 42

File: USPT

Feb 29, 2000

US-PAT-NO: 6031760

DOCUMENT-IDENTIFIER: US 6031760 A

TITLE: Semiconductor memory device and method of programming  
the same

DATE-ISSUED: February 29, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sakui; Koji	Tokyo			JPX
Miyamoto; Junichi	Yokohama			JPX
Imamiya; Kenichi	Kawasaki			JPX
Takano; Kei	Chigasaki			JPX

US-CL-CURRENT: 365/185.21; 365/185.22

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 15. Document ID: US 6028404 A

L4: Entry 15 of 42

File: USPT

Feb 22, 2000



US-PAT-NO: 6028404

DOCUMENT-IDENTIFIER: US 6028404 A

TITLE: Motor drive circuit system utilizing multiple DC power  
driving devices switchable between parallel, and  
series/parallel combinations

DATE-ISSUED: February 22, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yang; Tai-Her	Dzan-Hwa			TWX

US-CL-CURRENT: 318/111; 318/112, 318/113, 318/51

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KMC	Draw Desc	Image
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Term	Documents
(2 NEAR7 3).USPT,PGPB,EPAB.	42

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Display

15

Documents, starting with Document:

16

Display Format:

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**WEST**☐ Generate Collection

L23: Entry 5 of 20

File: USPT

Jul 11, 2000

US-PAT-NO: 6088700

DOCUMENT-IDENTIFIER: US 6088700 A

TITLE: Automated forms completion for global information  
network applications

DATE-ISSUED: July 11, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larsen; Kenneth N.	New Port Richey	FL	34652	
Peterson; Eric	Alpharetta	GA	30004	

APPL-NO: 9/ 369551

DATE FILED: August 6, 1999

INT-CL: [7] G06F 17/30

US-CL-ISSUED: 707/10; 707/505, 707/506, 707/507

US-CL-CURRENT: 707/10; 707/505, 707/506, 707/507

FIELD-OF-SEARCH: 707/10, 707/505, 707/506, 707/507

PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

☐ Search Selected☐ Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> <u>4553206</u>	November 1985	Amutek et al.	707/3
<input type="checkbox"/> <u>4763356</u>	August 1988	Day, Jr. et al.	379/368
<input type="checkbox"/> <u>4829294</u>	May 1989	Iwami et al.	340/723
<input type="checkbox"/> <u>4962475</u>	October 1990	Hernandez et al.	364/900
<input type="checkbox"/> <u>5251291</u>	October 1993	Malcolm	395/146
<input checked="" type="checkbox"/> <u>5640577</u>	June 1997	Scharmer	395/768

ART-UNIT: 271

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Coby; Frantz

ATTY-AGENT-FIRM: Cook; Dennis L.

ABSTRACT:

A global information network forms completion data processing system uses data stored in a database to automatically fill out data fields of the various and multiple forms displayed on the WEB browsers of users who are engaged in commerce, dealing with governmental agencies, or otherwise attempting to complete transactions over the global information network. The data processing system retrieves tagged information previously entered and stored in a database, and automatically inserts the data in similarly tagged uncompleted fields of any number and variety of forms. The fully completed forms are then transmitted to the parties requesting the information and are stored for later retrieval, updating and printing by the user.

7 Claims, 3 Drawing figures

**WEST**

Generate Collection

L23: Entry 6 of 20

File: USPT

Jul 4, 2000

US-PAT-NO: 6084585

DOCUMENT-IDENTIFIER: US 6084585 A

TITLE: System for directly accessing fields on electronic forms

DATE-ISSUED: July 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kraft; Reiner	Gilroy	CA		
Lu; Qi	San Jose	CA		
Pinter; Ron Yair	Palo Alto	CA		

## ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
International Business Machines Corp.	Armonk	NY				02

APPL-NO: 9/ 124635

DATE FILED: July 29, 1998

## PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of Provisional Patent Application No. 60/067,675 filed Dec. 5, 1997, entitled "Direct Access to Fields on Electronic Forms."

INT-CL: [7] G06F 3/14

US-CL-ISSUED: 345/352; 345/353, 345/356, 345/329, 707/507, 707/505

US-CL-CURRENT: 345/733; 345/810, 345/841, 345/854, 707/505, 707/507

FIELD-OF-SEARCH: 345/352, 345/353, 345/356, 345/357, 345/975, 345/347, 345/329, 707/507, 707/508, 707/505, 707/506, 707/906, 707/503

## PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/> 4763356	August 1988	Day, Jr. et al.	707/507 X
<input checked="" type="checkbox"/> 5367619	November 1994	Dipaolo et al.	707/506
<input type="checkbox"/> 5444841	August 1995	Glaser et al.	707/506
<input type="checkbox"/> 5450538	September 1995	Glaser et al.	707/508
<input type="checkbox"/> 5557723	September 1996	Holt et al.	707/506
<input type="checkbox"/> 5687385	November 1997	Janay	707/506
<input type="checkbox"/> 5704029	December 1997	Wright, Jr.	707/505
<input type="checkbox"/> 5920866	July 1999	Crim	345/352 X

ART-UNIT: 273

PRIMARY-EXAMINER: Bayerl; Raymond J.

ATTY-AGENT-FIRM: Dan Hubert & Assoc.

ABSTRACT:

A computer system provides a graphical user interface (GUI) to assist a user in completing electronic forms. The computer includes components such as a processor, user interface, and video display. Using the video display, the processor presents a row entry template including a menu field and an associated data field. The user completes the menu field by selecting a desired menu entry from a list of predefined menu entries. The user completes the data field by entering data into the data field. This format is especially useful when the data entry provides data categorized by the menu entry, explains the menu entry, or otherwise pertains to the menu entry. Each time the GUI detects activation of a form expand key, it presents an additional row entry template for completion by the user. Upon selection of a submit key, data of the completed form is sent to a predefined destination, such as a linked list, table, database, or another computer. Thus, by planned selection of menu entries, the user can limit his/her completion of an electronic form to blanks applicable to that user, avoiding the others. Nonetheless, the form can be easily expanded row by row to accommodate as many different blanks as the user wishes to complete. The invention may be implemented by a host sending a remote computer machine-executable instructions which the remote computer executes to provide the GUI, where the remote computer ultimately returns the completed form data to the host.

33 Claims, 10 Drawing figures

**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 15 of 20 returned.**☐ 1. Document ID: US 6177940 B1

L23: Entry 1 of 20

File: USPT

Jan 23, 2001

US-PAT-NO: 6177940

DOCUMENT-IDENTIFIER: US 6177940 B1

TITLE: Outcomes profile management system for evaluating treatment effectiveness

DATE-ISSUED: January 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bond; Malcolm L.	Winters	CA		
Chapman; Bruce Richard	Folsom	CA		

US-CL-CURRENT: 434/262; 345/841, 600/300, 705/3, 707/104.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 2. Document ID: US 6175833 B1

L23: Entry 2 of 20

File: USPT

Jan 16, 2001

US-PAT-NO: 6175833

DOCUMENT-IDENTIFIER: US 6175833 B1

TITLE: System and method for interactive live online voting with tallies for updating voting results

DATE-ISSUED: January 16, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
West; Brenden	Seattle	WA		
Anderson; Sean	Kirkland	WA		

US-CL-CURRENT: 707/102; 434/323, 705/26, 707/505, 707/506

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☒ 3. Document ID: US 6154753 A

L23: Entry 3 of 20

File: USPT

Nov 28, 2000

US-PAT-NO: 6154753

DOCUMENT-IDENTIFIER: US 6154753 A

TITLE: Document management system and method for business  
quality modeling

DATE-ISSUED: November 28, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McFarland; Jonna A.	Sterling	VA		

US-CL-CURRENT: 707/508; 707/530

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 4. Document ID: US 6137488 A

L23: Entry 4 of 20

File: USPT

Oct 24, 2000

US-PAT-NO: 6137488

DOCUMENT-IDENTIFIER: US 6137488 A

TITLE: System for creating structured fields on electronic  
forms

DATE-ISSUED: October 24, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kraft; Reiner	Gilroy	CA		
Lu; Qi	San Jose	CA		
Pinter; Ron Yair	Palo Alto	CA		

US-CL-CURRENT: 345/866; 345/764, 707/102, 707/4

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 5. Document ID: US 6088700 A

L23: Entry 5 of 20

File: USPT

Jul 11, 2000

US-PAT-NO: 6088700

DOCUMENT-IDENTIFIER: US 6088700 A

TITLE: Automated forms completion for global information  
network applications

DATE-ISSUED: July 11, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Larsen; Kenneth N.	New Port Richey	FL	34652	
Peterson; Eric	Alpharetta	GA	30004	

US-CL-CURRENT: 707/10; 707/505, 707/506, 707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 6. Document ID: US 6084585 A

L23: Entry 6 of 20

File: USPT

Jul 4, 2000

US-PAT-NO: 6084585

DOCUMENT-IDENTIFIER: US 6084585 A

TITLE: System for directly accessing fields on electronic forms

DATE-ISSUED: July 4, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kraft; Reiner	Gilroy	CA		
Lu; Qi	San Jose	CA		
Pinter; Ron Yair	Palo Alto	CA		

US-CL-CURRENT: 345/733; 345/810, 345/841, 345/854, 707/505,  
707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 7. Document ID: US 6032184 A

L23: Entry 7 of 20

File: USPT

Feb 29, 2000



US-PAT-NO: 6032184

DOCUMENT-IDENTIFIER: US 6032184 A

TITLE: Integrated interface for Web based customer care and trouble management

DATE-ISSUED: February 29, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cogger; Timothy John	Chapel Hill	NC		
Kunkel, III; Isaac A.	Apex	NC		
Miller; David Todd	Fuquay-Varina	NC		
Patil; Suma P.	Apex	NC		

US-CL-CURRENT: 709/223; 705/8, 707/10

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 8. Document ID: US 5893123 A

L23: Entry 8 of 20

File: USPT

Apr 6, 1999

US-PAT-NO: 5893123

DOCUMENT-IDENTIFIER: US 5893123 A

TITLE: System and method of integrating a spreadsheet and external program having output data calculated automatically in response to input data from the spreadsheet

DATE-ISSUED: April 6, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tuinenga; Paul W.	Folsom	CA	95630	

US-CL-CURRENT: 707/504; 707/503

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 9. Document ID: US 5845300 A

L23: Entry 9 of 20

File: USPT

Dec 1, 1998

US-PAT-NO: 5845300

DOCUMENT-IDENTIFIER: US 5845300 A

TITLE: Method and apparatus for suggesting completions for a partially entered data item based on previously-entered, associated data items

DATE-ISSUED: December 1, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Comer; Ross Ward	Bothell	WA			
Stein; Adam Brett	Bellevue	WA			
Williams, Jr.; David Russell	Issaquah	WA			

US-CL-CURRENT: 707/508

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw. Desc	Image
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☒ 10. Document ID: US 5745712 A

L23: Entry 10 of 20

File: USPT

Apr 28, 1998

US-PAT-NO: 5745712

DOCUMENT-IDENTIFIER: US 5745712 A

TITLE: Graphical programming system and methods for assisting a user with creating screen objects on a screen device

DATE-ISSUED: April 28, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Turpin; William Monroe	Santa Cruz	CA			
Brown; Kevin Lane	Scotts Valley	CA			
Bogrett; Steven Ward	Campbell	CA			

US-CL-CURRENT: 345/763; 707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw. Desc	Image
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☐ 11. Document ID: US 5742836 A

L23: Entry 11 of 20

File: USPT

Apr 21, 1998

US-PAT-NO: 5742836

DOCUMENT-IDENTIFIER: US 5742836 A

TITLE: Graphical programming system and methods with user interface

DATE-ISSUED: April 21, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Turpin; William Monroe	Santa Cruz	CA		
Brown; Kevin Lane	Scotts Valley	CA		
Bogrett; Steven Ward	Campbell	CA		

US-CL-CURRENT: 707/507; 345/853, 707/1

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw. Desc	Image
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☐ 12. Document ID: US 5704029 A

L23: Entry 12 of 20

File: USPT

Dec 30, 1997

US-PAT-NO: 5704029

DOCUMENT-IDENTIFIER: US 5704029 A

TITLE: System and method for completing an electronic form

DATE-ISSUED: December 30, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wright, Jr.; Gerald V.	San Diego	CA		

US-CL-CURRENT: 707/505; 345/173, 345/748, 345/762

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw. Desc	Image
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☐ 13. Document ID: US 5701499 A

L23: Entry 13 of 20

File: USPT

Dec 23, 1997

US-PAT-NO: 5701499

DOCUMENT-IDENTIFIER: US 5701499 A

TITLE: Method and system for automatically entering a data series into contiguous cells of an electronic spreadsheet program or the like

DATE-ISSUED: December 23, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Capson; Brian	St. John			CAX
Cherry; Wes	Bellevue	WA		
Devaan; Jon	Redmond	WA		
Duncan; Chris	Ithaca	NY		
Fowkes; Raymond E.	Bellevue	WA		
Graham; Christopher E.	Redmond	WA		
James; Lisa R.	Bellevue	WA		
McGuire, Jr.; Timothy W.	Issaquah	WA		

US-CL-CURRENT: 707/503; 345/788, 345/866, 707/904

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☒ 14. Document ID: US 5682538 A

L23: Entry 14 of 20

File: USPT

Oct 28, 1997

US-PAT-NO: 5682538

DOCUMENT-IDENTIFIER: US 5682538 A

TITLE: Automatic adaptive computer screen generation

DATE-ISSUED: October 28, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lemire; John P.	Redmond	WA		
Mortensen; Mark A.	Mercer Island	WA		
Jenny; Patrick D.	Redmond	WA		
Barnes; Todd Allan	Snohomish	WA		

US-CL-CURRENT: 707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 15. Document ID: US 5608898 A

L23: Entry 15 of 20

File: USPT

Mar 4, 1997

US-PAT-NO: 5608898

DOCUMENT-IDENTIFIER: US 5608898 A

TITLE: Development system with methods for maintaining data integrity of information stored as a data record in a database with a copy of the information displayed on a screen device

DATE-ISSUED: March 4, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Turpin; William M.	Santa Cruz	CA		
Brown; Kevin L.	Scotts Valley	CA		
Bogrett; Steven W.	Campbell	CA		

US-CL-CURRENT: 707/201; 707/530

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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Term	Documents
(17 AND (21 OR 19 OR 20)).USPT,PGPB,EPAB.	20

Display

15

Documents, starting with Document:

16

**Display Format:**

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**WEST**[Generate Collection](#)**Search Results - Record(s) 16 through 20 of 20 returned.**☒ 16. Document ID: US 5367619 A

L23: Entry 16 of 20

File: USPT

Nov 22, 1994

US-PAT-NO: 5367619

DOCUMENT-IDENTIFIER: US 5367619 A

TITLE: Electronic data entry system employing an expert system to facilitate generation of electronic data forms with complex interrelationships between fields and subforms

DATE-ISSUED: November 22, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dipaolo; William J.	Pittsburgh	PA		
Tinley; David M.	Pitcairn	PA		
Thompson; Timothy F.	Monroeville	PA		
Parsons; Carol A.	Forest Hills	PA		

US-CL-CURRENT: 707/506; 345/825, 706/45, 707/4, 707/514,  
707/530

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 17. Document ID: US 5315504 A

L23: Entry 17 of 20

File: USPT

May 24, 1994

US-PAT-NO: 5315504

DOCUMENT-IDENTIFIER: US 5315504 A

TITLE: Electronic document approval system

DATE-ISSUED: May 24, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lemble; Philippe	Saint-Laurent du Var			FRX

US-CL-CURRENT: 700/90; 707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 18. Document ID: US 5222217 A

L23: Entry 18 of 20

File: USPT

Jun 22, 1993

US-PAT-NO: 5222217

DOCUMENT-IDENTIFIER: US 5222217 A

TITLE: System and method for implementing operating system  
message queues with recoverable shared virtual storage

DATE-ISSUED: June 22, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blount; Marion L.	Mahopac	NY		
Morgan; Stephen P.	Hartsdale	NY		
Rader; Katalin A. V.	Austin	TX		
Rader; Robert K.	Austin	TX		
Shaheen-Gouda	Austin	TX		

US-CL-CURRENT: 707/204

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 19. Document ID: US 4763356 A

L23: Entry 19 of 20

File: USPT

Aug 9, 1988

US-PAT-NO: 4763356

DOCUMENT-IDENTIFIER: US 4763356 A

TITLE: Touch screen form entry system

DATE-ISSUED: August 9, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Day, Jr.; Benjamin W.	Rumson	NJ		
Gillon; Alexander C.	Aberdeen	NJ		
LeConte; Raoul A.	Howell	NJ		

US-CL-CURRENT: 379/368; 178/18.01, 345/173, 345/790, 345/902,  
379/396, 379/915, 379/916, 379/93.19, 707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 20. Document ID: US 4651288 A

L23: Entry 20 of 20

File: USPT

Mar 17, 1987

US-PAT-NO: 4651288

DOCUMENT-IDENTIFIER: US 4651288 A

TITLE: Method and apparatus for filling out a form by a machine

DATE-ISSUED: March 17, 1987

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zeising; Norbert	Oldenburg			DEX

US-CL-CURRENT: 358/1.18; 400/279, 400/62, 400/76, 707/507

Full	Title	Citation	Front	Review	Classification	Date	Reference	KWIC	Draw Desc	Image
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[Generate Collection](#)

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(17 AND (21 OR 19 OR 20)).USPT,PGPB,EPAB.	20

[Display](#)

15

Documents, starting with Document:

20

Display Format:[CIT](#)[Change Format](#)



Journal: MacUser Dec 1993 v9 n12 p68(2)

\* Full Text COPYRIGHT Ziff-Davis Publishing Company 1993.

-----  
Title: Quicken 4 for Macintosh.  
(Intuit's personal-finance package) (New on the Menu:  
Reviews)

Author: Lindstrom, Bob

Abstract: Intuit's \$69.95 Quicken 4.0 personal finance software is a feature-laden and high-quality accounting package that will make the switch to computer-based personal finance almost painless, even for beginners. Version 4.0 puts Quicken even farther ahead of its competitors with its over 100 new enhancements, including several not found in the Windows and DOS versions. The advantages of using Quicken 4.0 over paper-based personal accounting systems is that even non-accountants can use the program effectively and many of its features make managing finances much easier than paper-based systems. Features that significantly improve upon the speed and efficiency of paper-based systems include IntelliCharge electronic credit services; QuickFill, which automates and accelerates data entry; and Transfer Money, which saves users from entering the same data twice. Quicken also provides a well-designed interface and excellent online help and documentation. Quicken 4.0 is intended for use with the Macintosh.

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Full Text:

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Quicken 4 for Macintosh Published by: Intuit, 155 Linfield Avenue, P.O. Box 3014, Menlo Park, CA 94026; 800-624-8742 or 415-322-0573. List Price: \$69.95.

Boasting more than 100 new enhancements, the latest version of Quicken is far more than just another upgrade. Quicken 4 for Macintosh leapfrogs the DOS and Windows versions of the program, providing several features not available in those versions. Moreover, with the addition of investment tracking, access to electronic credit-card statements, enhanced charting, and loan amortization, Quicken 4 significantly lengthens its lead as the front-running personal-finance program.

#### Easier Than Paper

Although Quicken 4 has several software rivals, including MECA's Managing Your Money and Aatrix Software's Checkwriter Pro, its real challenger is paper-based personal accounting. Quicken's success at luring people away from their check stubs and ledger books is due to two basic design assumptions.

First, you don't have to be an accountant to use the program effectively.

You write checks, pay bills, track credit charges, and record cash transfers on-screen just as you do on paper. But under the hood, Quicken runs a thorough double-entry accounting system with powerful reporting capabilities. In short, you attend to your affairs as usual, and Quicken

provides the accounting expertise.

Second, Quicken's check printing, electronic-payment capabilities, and new IntelliCharge electronic credit services win hands down at providing a faster and more efficient means of managing your finances than the pencil-and-paper method.

Version 4's new features reinforce Quicken's twin goals of familiarity and efficiency. The time-saving QuickFill feature accelerates data entry by referring to previous transactions and filling in fields automatically. For example, once you've typed a few characters into a field, QuickFill searches previous entries and completes the current entry if it finds a match. If the match is incorrect, you can continue to type additional characters and QuickFill will narrow its search.

Even better, you can create automatic transactions for groups of expenses that occur regularly, such as cash transfers, income deposits, and mortgage and utility payments. At the time intervals you choose, Quicken 4 adds the transactions to your register and, if you wish, automatically issues the checks or electronic payments.

With the new Transfer Money command, you can move cash from one account to another without the hassle of double-entry accounting. You simply enter a transaction description, the date of the transfer, and the dollar amount. Pop-down menus permit you to select the source and destination accounts. Quicken 4 records the credit and the debit in the appropriate accounts.

Version 4's loan-amortization features make loan tracking easy too. Quicken 4 calculates payment schedules -- including interest and principal paid -- and updates loan balances for fixed- and variable-rate loans, prepayments, negative amortization, and balloon payments.

The previous version of Quicken already addressed the inconvenience of check writing by providing modem access to the CheckFree electronic-check-payment service. For a monthly service charge of about \$10 for 20 transactions, Quicken automatically establishes a modem link with the CheckFree Processing Center and issues electronic payments to the vendors of your choice.

#### Charge It

Quicken 4's IntelliCharge service brings a similar level of automation to your Visa account. If you hold a Quicken Visa Gold card and you subscribe to the IntelliCharge service, you can receive monthly electronic credit-card statements and import them directly into Quicken. IntelliCharge statements are mailed on-disk for a monthly fee of \$4.50, or you can download them, using Quicken and a modem, for \$3 per month. The first six months' statement delivery is free, and there's no annual charge for the Quicken Visa card. A Quicken Visa request certificate is provided with the package.

If you manage an investment portfolio, Quicken can assist you in this capacity as well. Quicken 4's extensive new features for stock-portfolio and mutual-fund management support virtually every type of investment, including stocks, bonds, real-estate investment trusts, IRA and Keogh accounts, cash-management accounts, money-market funds, CDs, treasury bills, 401K plans, and real estate.

Consistent with Quicken's ease of use, Intuit has built the program's investment support around a group of Quick-Forms, which prompt you for the necessary information as you enter investment transactions, such as buying and selling stocks and reinvesting dividends. Experienced traders may want to enter investment information directly into an account register.

### Investment Analysis

Quicken 4 provides a slew of new 2-D and 3-D charts for tracking and analyzing investment performance and financial transactions. For example, Quicken 4 can graph stock prices based on value updates you key in or import directly from an electronic stock-quote service.

The program's convenient QuickBrowse feature displays the exact value of a chart element when you double-click on it. Similarly, double-clicking on an element in a Quicken chart or report enables the QuickZoom feature, which lets you examine the transaction details represented by the selected element.

Five new financial-planning calculators -- for loans, retirement, savings and investment goals, mortgage refinancing, and college savings -- provide even more analytical power. Like the QuickForms, these planners prompt you for information and then display the course of action you need to take to achieve your financial goals. You can perform what-if calculations to evaluate different options.

If you need to exercise some spending controls, the new QuickBudget feature lets you examine your existing transaction data and generate a sample budget based on your financial history. Once you've seen what you've spent over the past year, it's easier to set realistic goals for the upcoming year.

Additional enhancements include improved links to tax-preparation programs, a report that lists transactions according to IRS tax-form line items, numerous interface refinements, and the ability to resize and reformat reports.

Quicken 4 comes with a thorough (400+ page), well-written manual, but the program is so easy to use that many users will find themselves up and running before they've even cracked the documentation.

In addition, the slim 64-page Business Users' Guide advises you on how to use Quicken 4 to manage the finances of a small business. Unless you're running a one-person shop or have fewer than five employees, however, Quicken is probably not the best choice for small-business accounting.

Quicken 4 supports System 7's Balloon Help, publish (but not subscribe), and TrueType fonts. Intuit's Qcards provide context-sensitive on-line help.

Surprisingly, Quicken 4 delivers all of its new features for the same \$69.95 retail price of the previous version (Quicken 3 owners can upgrade to the new release for \$29.95 plus shipping). At that price, Quicken 4 is as cost-effective as it is powerful.

The minimum configuration for Quicken 4 is any Macintosh with System 6, 2 megabytes of RAM, and a hard drive.

## The Bottom Line

For those still managing their checkbooks with pencil and paper, Quicken 4 for Macintosh makes a compelling case for switching to computer-based personal finance. The program's well-designed interface, comprehensive feature set, and excellent documentation and on-line help make the switch nearly painless, even for novices.

Veteran Quicken users will discover that Intuit has significantly broadened the program's scope with version 4. No longer must users resort to using a second software program to do their investment planning and tracking -- Quicken 4 has portfolio- and mutual-fund-management features built in. Who could ask for more?

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Type: software review  
evaluation  
Company: Intuit Inc.  
Product: Quicken 4.0  
Topic: Financial software  
Evaluation  
Personal Finance

Record#: 14 474 350.

\*\*\* End \*\*\*

Journal: EDGE: Work-Group Computing Report Sept 14 1992 v3 n121 p7(1)  
\* Full Text COPYRIGHT EDGE Publishing 1992.

-----  
Title: Personal finance: Quicken adds over 100 improvements.  
(Intuit's Quicken 6.0 financial software) (Product  
Announcement)

-----  
Full Text:

Intuit Thursday announced the availability of the new version 6.0 of DOS Quicken, the world's best-selling personal finance software.

Quicken 6.0 features over 100 enhancements designed to reduce data entry, and increase financial insight and ease-of-use.

"We've had two dreams. One is to eliminate the data entry required by financial software. The other dream is to see your complete financial picture with one keystroke, and what's going on in more detail with the next keystroke," said Scott Cook, president and co-founder of Intuit. "With Quicken 6.0, both dreams come true."

Quicken 6.0 innovates by slashing data entry with the addition of IntelliCharge, Automatic Bill Payment, and QuickFill. The product also gives users new insight of their finances, with thirty-five instant graphs, a financial planning tool kit and two-way QuickZoom. Coaches, re-designed documentation, new installation and field-specific Help make Quicken even easier to learn than ever. Over 100 enhancements have been made to the new version, including significant improvements to loan amortization and tax links.

AUTOMATIC DATA ENTRY Quicken dominates the personal finance market because it was the first product to make managing finances faster and easier than doing it by hand. While millions are currently using Quicken, the biggest concern of non-users is that data entry will be difficult or time consuming. New Quicken 6.0 overcomes these concerns by actually eliminating big chunks of data entry, and dramatically reducing the time required to enter transactions.

ELIMINATION OF DATA ENTRY -- IntelliCharge. A radically new software and service invention, IntelliCharge automatically enters credit card charges into the Quicken register. For the first time, users get complete spending records without typing. All transaction data is captured, including expense categories. IntelliCharge works hand-in-hand with the new Quicken Visa Gold Card, the first credit card to deliver statements electronically via diskette or modem.

-- Automatic bill payment. Pay all recurring bills automatically without touching a key. Simply tell Quicken about the payment, and it is paid for you automatically every month thereafter. You don't have to remember or do anything. All bills are paid electronically via modem and the CheckFree Electronic Payment Service.

-- Prodigy stock price import. Developed with Prodigy, users can now import stock price data from Prodigy into Quicken. "Entering stock prices can be a time-consuming and error-prone task for many of our

rs," said Suzanne Taylor, product manager, "this feature eliminates those problems." According to Intuit research, 80 percent of PC owners have investments.

**ASTER DATA ENTRY -- QuickFill** Enter transactions with just a few keystrokes. As the user begins typing, QuickFill searches for a match among recently recorded or saved transactions and automatically completes the entry. QuickFill works for transactions, categories and securities. QuickFill was one of two new features favored most by beta testers (graphs were the other).

-- Fully featured loan amortization. New Quicken 6.0 now handles fixed and variable rate loans, as well as impound accounts, balloon payments and prepayments. Initially introduced in Quicken 5.0, Quicken's loan amortization calculates principal and interest, and automatically enters both parts as the user records a payment. No manual calculations are necessary.

-- Pop-up calendar. Dates, while simple, are one of the most difficult things to enter into a program. With Quicken's calendar, dates are entered with a single key or mouse-click. Also use the calendar to time bill payments, see when the next paycheck is due, scan months or go to dates.

Additional tools to reduce data entry:

-- Copy/paste transaction lets users simply copy a previous transaction and paste it into a new one.

-- Improved links to tax software reduces keystrokes to link data to TurboTax.

-- Single-Line Register allows users to display three times as many transactions on screen, making it faster to find and edit previous transactions.

**BETTER FINANCIAL INSIGHT** A primary benefit of having financial information in Quicken is that it allows users to see where they are spending money, and whether they are meeting budgetary and financial goals. Quicken 6.0 provides key new features that enable users to see and understand their finances better than ever before.

-- Instant graphs. Pop up a chart on screen to easily see which expenses are out of line, where actual spending diverts from budget and how investments are performing. Charts and graphs make it far easier to spot trends and problems. Thirty-five pre-set graphs with the most important financial information are available within a few keystrokes of starting the program.

Bar, stacked bar, line and pie charts are available for income and expense, budget, net worth, and investments. Customizing options are also provided.

-- Financial planning tool kit. Set a goal and Quicken 6.0 tells what is needed to achieve it. Using "what-if" capabilities, users can easily see the impact of various events on achieving their goals. For example, when working with the Retirement Calculator, users can see the effect of tax rates, savings, income and inflation. Financial planning tools are available for loans, mortgage refinancing, retirement, investments and

college funding.

- Two-way QuickZoom. See the numbers behind the numbers. If a number in a report looks off, simply press a key to see the transactions which comprise the number. Another key zooms to a selected transaction for editing. Two-way QuickZoom takes the user back to the same place in the updated report with just a keystroke.

EASIER TO USE Even with all these new features, Quicken 6.0 is easier than ever to use.

-- Coaches. Designed to help new users get up-and-running more quickly, coaches automatically pop-up to describe new features and concepts such as account types, reconcile and categories. Coaches give users important information where they need it, when they need it, automatically.

-- Completely overhauled documentation. Working with documentation and usability experts, Intuit has completely overhauled the Quicken documentation, breaking it up into more usable parts and improving the design for easier readability. New Quicken 6.0 now includes a QuickStart Card, brief Getting Started pamphlet, Reference Manual with a glossary and a separate Business Applications manual.

-- Installation. The new Install can now move any existing Quicken data into the new directory, along with all previous settings, enabling upgraders to be up-and-running quicker than ever.

Additional new tools to make Quicken easier to use:

- Field-Specific Help provides answers to questions where you need it.
- More Assistants to guide users through setting up investment accounts and loan amortization.
- Check Alignment improvements increases accuracy of check printing and ease of making specifications.

PRICING & SYSTEM REQUIREMENTS The suggested retail price for Quicken 6.0 is \$69.95. The product will be available at leading retail stores in the United States and Canada beginning Sept. 15, 1992.

Upgrade policy: Current users can purchase Quicken through retail outlets and receive a \$10 rebate. Upgrades are available directly from Intuit for \$29.95 plus \$5.00 shipping and handling. For more information call 800/624-8742.

Quicken is distributed throughout the United States and Canada by Ingram Micro, Merisel, Softkat, JB Marketing and Beamscope.

The system requirements for Quicken 6.0 include: - Any IBM PC or compatible - DOS 2.0 or higher - A hard disk - 512K RAM or greater; 640K RAM required for IntelliCharge - Graphics card required for graphs - Money back guarantee to work with any printer or monitor

Quicken is also available for Windows, Macintosh and Apple II systems. Feature sets vary.

Checks for use with Quicken are available directly from Intuit; a catalog and order form are in the Quicken package. Checks are pre-approved and

Documentation/support 5

\* Upgrades, \$29.95 plus shipping.

System 7 Compatibility: 'Quicken for Macintosh 4.0

Balloon help Yes

TrueType Yes

Publish and subscribe\* Yes

Apple events Yes

32-bit addressing\*\* Yes

\*Publish only.

\*\*According to vendor. !!! END TABLE

After a long delay (too long, according to many customers), Intuit Inc. has released a major upgrade to the Macintosh version of Quicken, its best-selling multiplatform personal-finance program. The upgrade, which incorporates the most-requested features from the past three versions of Quicken for DOS and adds some features not available on any other platform, constitutes the first significant upgrade for the Mac version in almost two years.

Although it contains more than 100 enhancements - some large, some small - Quicken for Macintosh 4.0 retains the \$69.95 price tag of the previous version. Upgrades to Quicken 4.0 from previous versions are \$29.95 plus shipping.

Quicken 4.0 requires System 6.0, a hard disk with at least 2 Mbytes of free disk space and at least 770 Kbytes of RAM (1 Mbyte or more is preferred).

New investments pay off

One of the major deficiencies of Quicken has been its lack of support for investments. Version 4.0 emphatically eliminates that shortcoming, adding a number of wealth-building tools to the Quicken framework while retaining the ease of use that Quicken users demand.

Support has been added for two new account types: portfolios and mutual funds. Between these two, Quicken 4.0 can support virtually all investments, including stocks and bonds, mutual funds, 401(k) accounts, certificates of deposit, Treasury bills, and more.

Quicken's report and graph facilities can provide analyses on investment performance, income generated and capital gains. Portfolio windows have graphs of their own that track the price or market value of shares in a security.

In keeping with its goal of making finances easier, Intuit has implemented a set of QuickForms to handle virtually all of the common transactions performed on investments.

Flexible reports and graphs



guaranteed to be accepted by all banks, savings and loans, and credit unions in North America.

Intuit founded in March 1983, develops and markets software and services that automate the financial tasks done by individuals and businesses. Additional products include QuickBooks small business bookkeeping, and QuickPay payroll add-in.

For further information, contact Intuit, 155 Linfield Dr., Menlo Park, CA 94026, 800/624-8742.

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Type: product announcement  
Company: Intuit Inc.  
Product: Quicken 6.0  
Topic: Product Introduction  
Financial Software  
Accounting

Record#: 12 656 065.

\*\*\* End \*\*\*

\*\*\*\*\* . Computer Select, November 1993 : Articles \*\*\*\*\*

Journal: MacUser Nov 1993 v9 n11 p126(8)

\* Full Text COPYRIGHT Ziff-Davis Publishing Company 1993.

-----  
Title: Do-it-yourself databases.  
(five low-cost databases reviewed)  
Author: Smith, Jan

Abstract: Five low-cost end-user databases for the Apple Macintosh are reviewed. My Software Co's My Advanced Database has a list price of only \$59.95; the other four packages sell for approximately \$400 each, half the price of a high-end relational database. ACI US' File Force is a subset of the company's powerful 4th Dimension that lacks only the latter's programming language and run-time modules. Claris Corp's FileMaker Pro has a very streamlined interface and is fairly powerful. Helix Technologies' Helix Express is a very accessible relational program with an icon-based interface. ProVUE's Panorama II is designed primarily for efficiency and does not have an elegant interface, but sorts and searches are fast. My Advanced Database has a surprisingly extensive feature set, although it is completely non-relational. Helix Express lets users attach a document to a database; FileMaker Pro and Panorama II also support some special attachments. My Advanced Database is the only one of the five products that does not support buttons or graphics. FileMaker Pro and Panorama II represent the middle of the spectrum and are recommended.

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Full Text:

The most often used database program on the Mac, some say, is actually a spreadsheet program -- Excel. Never mind that it isn't designed to let you easily move fields around, perform complex searches and sorts, and build custom reports and data-entry forms. It's familiar, and using it is easier than trying to create a custom database in some expensive, bound-to-be-complicated database program, right?

Not anymore. Today, even low-cost database programs offer powerful data-handling features in easy-to-use formats. The makers of these programs claim that even novices can create an attractive, functioning database within hours, without programming.

To find out how much database power can be packed into a product that nonprogrammers can set up and use, we reviewed five database programs targeted at such users. Unlike high-end products such as ACI US' 4th Dimension and Blyth Software's Omnis Seven, these programs don't include sophisticated features such as extensive programming languages, code compilers, and run-time modules for distributing finished applications. Instead, they are devised to make designing a database system as easy as selecting items from a menu.

There's a price difference too. High-end packages can cost upwards of \$800. Four of the programs we tested -- File Force, FileMaker Pro, Helix Express, and Panorama II -- are priced at half that. And My Advanced Database lists at just \$59.95.

## The Contenders

Because we chose products based on target audience rather than on whether the databases were flat-file or relational, we ended up with two relational- and three flat-file-database programs. Flat-file traditionally means each database holds one category of data -- such as People or Companies -- and can't be linked to other databases, as opposed to the relational approach of linking many single-category data files to form a database. However, two of the flat-file products we looked at, FileMaker Pro and Panorama II, have the pseudorelational ability to look up information in other databases.

Here's a quick introduction to the five products:

**File Force.** File Force, from ACI US, is the most substantial program we looked at. It's a subset of ACI US' 4th Dimension, created by removing the programming language and the run-time modules, and it retains the look and feel of its ancestor (as well as 4D's relational abilities).

**FileMaker Pro.** Long dominant among Mac flat-file-database programs (and a player in the Windows arena as well), FileMaker Pro, from Claris, has a simple, streamlined interface that reflects its developers' intent to keep the product from moving into the high-end relational-database market. Still, it's powerful enough to be the basis of simple commercial applications.

**Helix Express.** A lower-priced successor to Double Helix, this program from Helix Technologies has a radically different approach from the other programs we looked at. Its unique terminology and icon-based interface are intended to make its relational capabilities accessible to a wide range of users.

**My Advanced Database.** My Advanced Database, from My Software Company, is inexpensive and flatly flat-file, but it has a surprisingly extensive feature set.

**Panorama II.** ProVUE's Panorama II is designed for efficiency rather than good looks. It uses a table layout to get you going quickly, and its RAM-based approach is designed for fast searches and sorts.

## The Tests

To put these programs through their paces, we invented a small consulting firm called Sullivan Engineering and built and used three simple databases -- employee, customer, and invoice -- for it. We evaluated how easy it was to do these basic tasks in each program:

Define data fields.

Define database relationships.

Create entry forms and reports.

Access and maintain data.

In addition to evaluating ease of use, we looked at a sampling of performance issues, such as sort speed and file size.

## Field Trials

The first task in setting up any database is defining the fields you want it to contain -- for example, our employee database contained fields for employee ID, first and last name, hire date, birth date, and so on. You also need to define what type of data goes in each field (such as text, numeric, date, or picture) and specify whether you want the database to automatically calculate, supply, or format the values.

Same Goal, Different Path. File Force, FileMaker Pro, and My Advanced Database all offer similar and easy-to-understand ways to set up fields: You type in a sequence of field names, specifying each field's properties by selecting from options in menus or field-description dialog boxes.

Panorama II, on the other hand, opens each new database in a columnar format, with letters in place of the field names across the top; you replace each letter with a name when you define the rest of the field's properties. Although the columnar format offers a preset layout that makes it easy to quickly enter some data (one row per record) and print simple reports, we found using it a slightly awkward method for field definition. If you want more than ten fields, you need to add columns -- and Panorama II's default is to insert the field before the last one you added rather than at the end.

The icon-based Helix Express has a radically different method of defining fields, one we found unintuitive. To get to the appropriate window for defining fields, you must define a relation (Helix's name for a data file), by dragging a relation icon into Helix's main window. You double-click on this icon to open a relation window, into which you drag field icons and name them, opening three dialog boxes to set the field's type, format, and validation properties. To complicate matters, some fields are represented by the abacus (calculation) icon instead of the field icon and the relation window can also hold icons that represent templates (forms designers), views (actual forms), indexes, and queries -- with no graphical clues besides icons to help you make sense of all this.

Easing Data Entry. Most of these programs offered all the options we needed for easing or customizing data entry in particular fields. Each program provided ways to create masks, or formatting specifications (so that telephone numbers, for example, are automatically formatted with parentheses and a hyphen), set up pick lists (so users can choose from several predefined values for a specific field), and create calculated fields.

File Force and Panorama II provide several ready-made input masks, but FileMaker Pro and Helix Express require you to create masks by hand. My Advanced Database includes only one mask, for telephone numbers, but it has an interesting extra feature: It provides a link to the program's auto-dialing feature.

In addition to its input masks, Panorama II offers easy pick lists and a lookup function called Clairvoyance, that's unique among these programs. When Clairvoyance is turned on for a field, the program searches the database for previous entries that match the string of characters you're entering and completes the entry for you. Clairvoyance can be convenient if you have only a few choices, such as cities or part names, or if you want to ensure data consistency, such as always having a company spelled the same way. If you accidentally enter values you don't want, you can turn the feature off.

Creating calculated fields in these programs is generally straightforward -- you compose a formula by selecting fields and operators (from basic math to complex statistical functions) from a menu of choices. Helix Express uses an unusual iconic approach once again, but here it works fairly well. You create the calculated field (represented by an abacus icon) by dragging fields, values, and/or other formula icons into the holes (called black boxes) in preset calculation tiles. Although at first it's a bit confusing, the tiles do make it easy to see the relationships within formulas.

Helix Express is the only program that lets you attach a document (actually a pointer to a document), such as a spreadsheet, to a record and then launch the appropriate application to view the document.

FileMaker Pro and Panorama II also support some special attachments. FileMaker Pro supports sound and QuickTime movie files as well as pictures (which all the programs except My Advanced Database also support). Panorama II uses a Flash Art Scrapbook to store pictures and lets you play back sound files from within a macro.

### Relating Data

Setting up our invoice database was a process that varied widely from program to program, because it involved using the relational or semirelational capabilities available in all the programs except My Advanced Database. We used relational capabilities, if they were available, to handle two aspects of our invoice database: multiple product orders per invoice and lookups of information from the employee and customer databases.

One Invoice, Many Orders. In creating our invoice database, we wanted each invoice record to have room for order information (quantity, part number, description, unit price, and total price) that could be repeated so we could record the purchase of several different items on one invoice -- even though an invoice would often include only one purchased item.

In a relational-database program, such as File Force and Helix Express, this situation is handled by having the order-information records exist in a separate data file related to the invoice data file. Each invoice can then include any number of orders, and there's no wasted space. However, you need to set up an orders file and link it to the invoice file.

Flat-file-database programs, in contrast, require that the order-information fields be repeated in the invoice database; you determine how many repetitions are enough and how much space you're willing to risk wasting. My Advanced Database provides no special help for creating repeating fields, but the other two flat-file database programs automate the process to some degree. Panorama II creates new fields, such as Qty1, Qty2, Price1, Price2, and so forth. FileMaker Pro simply repeats and displays each field as many times as you like.

Looking It Up. Because we already had a database of customer information, we wanted our invoice database to be able to look up information such as customer addresses, so we wouldn't have to enter this information on each invoice. We included a company-ID field in both databases to provide a means for linking the files.

Such lookups are standard in relational-database programs, such as File Force and Helix Express. With these database programs, you're not limited to looking up data from other data files -- you can also modify data in other files or even merge information from multiple data files. But these capabilities require a more complex design process than with flat-file-database programs. Both File Force and Helix Express require that all the data files to be linked be created as part of the same database -- so you need to plan ahead when you set things up.

File Force uses scripts for setting up links and lets you create scripts with words (see Figure 1a) or flowcharts. Unfortunately, the scripting language is complex and the documentation isn't helpful in clarifying the syntax for nonprogrammers. We'd rather the program placed each function's syntax and name in the scripting window.

Helix Express again uses an icon-based approach -- a Lookup calculation tile into which you drag the fields and data files (relations) for the lookup (see Figure 1b). The process takes concentration, because you start with the last hole in the tile and then move to the first, and it's easy to get confused about which relation you're using. The program's documentation does include models to help you, however.

Although the databases in the remaining three programs are not relational, FileMaker Pro and Panorama II each let you look up data in one database and use it in another (My Advanced Database has no lookup capabilities). For most simple database needs, such as with our invoice database, such lookups between separate databases are adequate. FileMaker Pro and Panorama II each use a simple, fill-in-the-blank dialog box to keep you from getting confused when creating a lookup (see Figure 1c). You specify the fields on which to base the link and which data to copy from one database into the other.

### Creating Forms and Reports

After setting up the fields, you need to create layouts, or views, of the data. Usually that means at least one on-screen input form, with one record per screen, plus multiple layouts for viewing and printing the data.

**Flexible Forms.** My Advanced Database is the only one of these programs that doesn't let you do much to customize input forms. It simply puts the fields you've entered in the center of the screen, leaving you little flexibility about how they're arranged, and it doesn't let you add buttons, custom menus, pictures, or macros.

Each of the other four programs includes a grid or template form, similar to that of a drawing program, on which you place the fields you want to use. Besides icons for adding fields, the programs include drawing functions, so you can add lines, boxes, colors, and graphics to your forms. We found Panorama II's mechanisms for placing, sizing, and moving fields and graphic objects to be the most difficult of the bunch -- even just lining objects up was tough.

All the programs except My Advanced Database let you add pictures and buttons. Helix Express and File Force also allow custom menus, and FileMaker Pro and Panorama II let you add macros to a macro menu -- for example, you might create a macro for a frequent complex search. Panorama II has a macro recorder, but FileMaker Pro requires simple scripting. File Force and Helix Express also require scripting to create

macros.

Overall, FileMaker Pro offers the best balance of efficiency and elegance for designing your own forms; placing and moving objects on its layout forms is easy, and the results tend to look better than in Helix Express or Panorama II. File Force offers an extensive design palette and a gorgeous selection of preformatted layout templates, but the templates are so sophisticated that they're hard to customize.

The Output Outlook. Getting the data out of databases in these programs is surprisingly straightforward. Most of the programs offer label templates (usually by Avery-label number), simple lists, and envelopes.

Designing your own output form is a matter of placing the fields you want on a blank form. The tools and options are similar to those for designing input forms, with additional options for adding headers, footers, and page numbers. As with input forms, My Advanced Database doesn't let you customize the format for reports.

Summaries and totals may require creating a separate field, as in FileMaker Pro and Helix Express, or simply selecting an item on a menu, as in File Force, My Advanced Database, and Panorama II.

All five programs export records to a separate text file for later import into a word processor for mail-merge. However, it's generally easier to create each letter as a separate layout and then select and print the letters within the database program.

There are other output options as well. Panorama II offers cross tabs, charts, and graphs as standard reports; we found it the most useful program for reporting numbers, although File Force includes a graph editor that produces especially good-looking graphs. My Advanced Database makes it easy to print address data and other information in standard organizer formats.

### Putting It to Work

To test the day-to-day workability of these programs, we checked how fast they sort records, how efficiently they use disk space, how easily they let you import data, and whether they let many users access one database.

The Sorted Details. To check sorting speed, we imported a 1,000-record tab-delimited file into the company database in each program and set up an index (an internal table built to position records in a particular order) on the 10-digit company-ID code. We mixed the records and timed a sort three times, shutting down the system after each test to remove the records from RAM.

We found that the time required for sorting varied widely within the programs (see Figure 3). Panorama II and Helix Express were relatively fast, and File Force and FileMaker Pro were somewhat slower. My Advanced Database was downright poky.

One reason for Panorama II's speed is that the program is RAM-based, unlike the other programs. Because the active database is stored in RAM, you get faster access to data and less battery drainage if you're using it on a PowerBook. However, you risk data loss if you lose power before you've saved your changes (or before the program has, if you've turned on the auto-save feature).

· **Fluctuating File Sizes.** We also found that database size varied widely. The 1,000-record database we imported from Excel actually became slightly smaller in Panorama II, but it expanded to more than three times its initial size in FileMaker Pro and more than twice its initial size in the other programs. If file space is tight -- especially if you expect to take your database program on the road in a PowerBook -- you'd be much better off with Panorama II than with FileMaker Pro.

**Matters of Import.** Importing data was easy with all the programs, although most require that the fields in the import file be organized in the same order as those in the destination database. FileMaker Pro wins kudos for letting you match fields in the import file and the database before you import the file.

**Multiple-User Matters.** If you're planning to create a database that multiple users will access, you won't want My Advanced Database; it's strictly a single-user program. FileMaker Pro is the clear choice in multiplatform environments, because users can share data with FileMaker Pro for Windows -- and by the time you read this, FileMaker Pro 2.1, which adds Novell NetWare support, should be available. File Force, Helix Express, and Panorama II are Mac-only, but they support multiple users on Mac-based client/server networks with password-controlled access.

### Deciding on a Database Program

In choosing from among these programs, you can't escape a trade-off between abilities and ease of use. My Advanced Database supports its developers' claim that you can build a simple database in five minutes, but the database will be limited in what it can do, and it won't have sharp-looking forms. It's a good, bargain-priced choice for creating quick-and-easy address books, index-card files, and other simple systems. But its lack of lookup abilities makes it easy for businesses to outgrow.

File Force and Helix Express, on the other hand, are true relational-database programs and thus the most flexible and powerful in this group -- but they require more planning of your database structure and have a steeper learning curve than the other programs.

If relational capabilities (being able to change values in one data file from another, for example) are important to you, you'd do well to look at File Force. Its slick-looking layout templates and wealth of design controls let you create attractive, customized applications you may well find worth the effort. Although Helix Express is theoretically easier to use, because of its icon-based approach, we often found it more difficult -- the icons are nonintuitive, and the terminology is confusing. However, if you want to attach documents to database records, Helix Express is the only way to go.

Our preference for do-it-yourselfers was for the midspectrum programs. FileMaker Pro and Panorama II each offer enough pseudorelational abilities (lookups and repeating fields) to handle moderately complex small-business applications as well as personal uses. And they're clearly designed for nonprogrammers, providing fast and easy access to standard database functions.

Which to buy? FileMaker Pro has the edge in looks and ease of use, and



it's strong for multiplatform use. If you're concerned with numerical reporting features or if you want a fast and compact RAM-based database program for your PowerBook, go with Panorama II.

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Type: software review  
evaluation  
Company: Claris Corp.  
Aci-us Inc.  
NorthCon Technologies Inc.  
My Software Co.  
ProVue Development Corp.  
Product: File Force 1.2  
FileMaker Pro 2.0.3  
Helix Express 1.0.1  
My Advanced Database 4.1  
Panorama II 2.1  
Topic: Data base management systems  
Evaluation

Record#: 14 406 392.

\*\*\* End \*\*\*

Intuit has expanded the flexibility and power of Quicken's report facility, adding easily resizable report columns, date templates (such as "this month" or "the last 60 days") and support for System 7's publishing feature.

The most interesting addition to Quicken's report facility, however, is QuickZoom, which allows you to examine "the numbers behind the numbers." Double-clicking on a summary line in a report displays a detail report of the transactions constituting the summary value. Double-clicking on any item in the detail report allows you to edit that transaction.

Intuit has also added graphing to Quicken. You can create and modify 2-D or 3-D graphs in four categories: income and expenses, budget variance, net worth, and investment performance. Within each of these categories, graphs can be customized just like reports and displayed in color.

When you click on a label or element of a graph, a small pop-up window displays its dollar value.

#### Other additions

Quicken 4.0 includes a set of five financial-planning calculators, supporting "what-if" calculations for investment, retirement and college savings, as well as loan analysis and refinancing.

The program has also improved its tax-handling capabilities, allowing each expense category to be linked to a specific tax form and line item. New reports and enhanced file exporting will help you prepare your records at tax time.

A new loan-tracking module lets you track principal, interest and amortization schedules.

#### Time savings

One of the major timesaving additions to Quicken 4.0 is QuickFill, which provides a prediction feature during transaction entry, similar to the Clairvoyance feature found in ProVUE Development Corp.'s Panorama II. As you type into a transaction entry or an editing window, QuickFill attempts to match the first letters of what you are typing with previous entries and fills in the rest of the field for you. If it's not correct, you just keep typing until it displays the correct completion (or until you're finished typing, for a new entry).

If you tab out of a payee field that has been entered with QuickFill, Quicken will enter the rest of the transaction information for you (amount, category and memo) based on the last transaction entered for this payee. You can edit what's changed; everything that stays the same is already done.

In addition to QuickFill, Quicken 4.0 features a batch-process timesaver called Automatic Transaction Entry, which allows you to designate sets of transactions to be automatically entered at regular intervals.

Intuit offers an innovative service for Quicken Mac users called IntelliCharge, which allows users of a Quicken Visa card to have their credit card transactions automatically entered and categorized for them. Users can opt for disk- or modem-based delivery of monthly statements.

Journal: MacWEEK July 19 1993 v7 n29 p52(2)  
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Title: Intuit's upgrade Quickens pace of personal finance:  
investments, other refinements improve capable, low-cost app.  
(Quicken 4.0) (includes related summary article)  
Author: Sullivan, Jeffrey

Abstract: Intuit Inc's \$69.95 Quicken for Macintosh 4.0 is a significant upgrade of an already excellent personal-finance program that adds 100 enhancements, including some features not available on other platforms. Quicken was once criticized for not supporting investments; the new version offers several wealth-building tools that support stocks and bonds, mutual funds, 401(k) accounts, certificates of deposit, Treasury bills and others. Analyses on investment performance are available via Quicken's report and graph facilities. The graphing facilities are very flexible; a new QuickZoom feature lets users examine the numbers behind a report summary in greater detail. There are five financial planning calculators that support 'what-if' calculations for investment savings, retirement savings, college savings, loan analysis and refinancing. QuickFill is a major time-saving enhancement that allows prediction during transaction entry. Quicken 4.0 is substantially unchanged from version 3.0 in its small-business accounting features; the program is really suitable only for very small businesses because it lacks traditional accounting constructs.

Full Text:

TITLE: INTUITS UPGRADE QUICKENS PACE OF PERSONAL FINANCE INVESTMENTS  
OTHER REFINEMENTS IMPROVE CAPABLE LOW COST APP !!! BEGIN TABLE

Score Card: Quicken for Macintosh

Intuit Inc.

Version tested: 4.0

List price: \$69.95\*

Overall value 5 !!! END TABLE

The long-awaited upgrade to the top-selling personal-finance package delivers improvements in virtually every area. New modules for investment tracking, graphs and financial planning fill the major holes in the previous version. Efficiency-enhancing features, such as QuickFill, let you spend less time keeping your records current. The program remains easy to use and well-integrated, and it continues to be an excellent tool for organizing your personal finances. !!! BEGIN TABLE

Performance	4
Features	4
Ease of use	5

Although the Quicken Visa has no annual fee, there is a monthly service charge of \$3 or \$4.50 for electronic statement delivery (via modem or floppy, respectively). For business users who track credit card expenditures, the timesavings IntelliCharge provides can outweigh the \$36 to \$54 a year that the service costs.

### Greater accountability

Although Intuit promotes Quicken as the best-selling small-business finance package, its support in these areas is substantially unchanged from Version 3.0. Intuit now includes a 64-page manual that explains how to use Quicken for small-business accounting, but this manual generally demonstrates that Quicken lacks specific support for business accounting practices, offering ways to work around these limitations with Quicken.

As an accounting package, Quicken is really only suitable for very small businesses or for tracking project or departmental finances. The lack of traditional accounting constructs and links to established accounting packages is by design; Quicken is a personal-finance package first and foremost.

### Documentation and support

Quicken's manual has been substantially rewritten and expanded. The main thing it shares with the previous version is its high quality. In addition to the main user guide, there is a Quick-Start pamphlet, as well as the Business User's Guide mentioned above.

Quicken's context-sensitive on-line help system provides thorough coverage of virtually all topics in a hypertext environment. New to this version of Quicken are Qcards, a floating-palette help system that gives information about options for the selected field. Quicken 4.0 also supports balloon help.

Intuit provides unlimited free technical support for Quicken users.

### In the red

Our only real disappointment with Quicken 4.0 is its lack of flexibility in importing financial data from competing programs. Only Intuit's public-domain Quicken Interchange Format (QIF) is supported - the program cannot import text data. Because MECA Software Inc.'s Managing Your Money (the second-largest Mac financial program) does not export to QIF, our attempts to convert Managing Your Money 5.0 files - by attempting to manually convert a text file to QIF - were tedious, frustrating and only partially successful.

Since Quicken holds the lion's share of the Mac personal-finance market, it is understandable that "going after the competition" is not one of Intuit's priorities. The result, however, is that users of most competing programs will essentially have to re-enter their data when switching to Quicken.

On a separate note, Quicken 4.0 is already behind Quicken 7.0 for DOS in some areas; we hope Intuit does not wait three more versions on the DOS side before delivering another Mac upgrade.

### Conclusions

Quicken for Macintosh 4.0 is a major upgrade to an already excellent personal-finance package. QuickFill and IntelliCharge impressively streamline data entry, while the new graph, investment, financial planner and loan amortization features significantly expand the program's range.

Despite the addition of many features, Quicken 4.0 remains extremely easy to use and well-integrated. Intuit has refined the interface and carefully avoided financial jargon, allowing people greater access to information about their finances while requiring less time to maintain them. Excellent documentation, including the manual, on-line help and Qcard facility, enhances the value of this package to everyone from total novices to power users.

Intuit Inc. is at 155 Linfield Ave., P.O. Box 3014, Menlo Park, Calif. 94026-3014. Phone (415) 322-0573 or (800) 624-8742; fax (415) 329-3689.

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Type: software review  
evaluation  
Company: Intuit Inc.  
Product: Quicken for Macintosh 4.0  
Topic: Accounting  
Software packages  
Evaluation

Record#: 14 053 417.

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